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DATE MAILED: 09/09/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/471,869	12/23/1999	JEFFREY PHILLIPS	E0295/7130-(	8044
75	90 09/09/2002			
RICHARD F GIUNTA			EXAMINER	
WOLF GREENFIELD & SACKS PC FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE BOSTON, MA 022102211		NGUYEN, CAM LINH T		
			ART UNIT	PAPER NUMBER
			2171	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/471,869	PHILLIPS ET AL.			
' Office Action Summary	Examiner	Art Unit			
	Cam-Linh T. Nguyen	2171			
The MAILING DATE of this communication  Period for Reply	on appears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR I	REPLY IS SET TO EXPIRE 3 MONTH	H(S) FROM			
THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicated. If the period for reply specified above is less than thirty (30) day find the period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, be Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status	CION.  CFR 1.136(a). In no event, however, may a reply be to ion.  s, a reply within the statutory minimum of thirty (30) day period will apply and will expire SIX (6) MONTHS from the statute, cause the application to become ABANDON	imely filed  ays will be considered timely.  m the mailing date of this communication.  IED (35 U.S.C. § 133).			
1)⊠ Responsive to communication(s) filed o	n <u>23 December 1999</u> .				
2a)☐ This action is <b>FINAL</b> . 2b)[2	☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-56</u> is/are pending in the appli	cation.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-56</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction Application Papers	and/or election requirement.				
9)☐ The specification is objected to by the Ex	aminer.				
10)⊠ The drawing(s) filed on <u>23 December 199</u>	$\underline{9}$ is/are: a)⊠ accepted or b) $\Box$ objected	to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are require	d in reply to this Office action.				
12)☐ The oath or declaration is objected to by t	he Examiner.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for t	oreign priority under 35 U.S.C. § 119(	a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
<ol> <li>Certified copies of the priority document</li> </ol>	iments have been received.				
2. Certified copies of the priority documents have been received in Application No					
<ol> <li>Copies of the certified copies of th application from the Internation</li> <li>See the attached detailed Office action for</li> </ol>	nal Bureau (PCT Rule 17.2(a)).	_			
14) ☐ Acknowledgment is made of a claim for do	mestic priority under 35 U.S.C. § 119	(e) (to a provisional application).			
a) ☐ The translation of the foreign langua 15)☐ Acknowledgment is made of a claim for do					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9 3) Information Disclosure Statement(s) (PTO-1449) Paper I	48) 5) Notice of Informal	ry (PTQ-413) Paper No(s) I Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	fice Action Summary	Part of Paper No. 4			

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## DETAILED ACTION

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ofek et al (U.S. 6,397,308) in view of Kobayashi et al (U.S. 6,148,415)
- ♦ As per claim 1, 7, 26, 37,

Ofek discloses a method for different backup and restoration of data in a computer storage system that comprises:

- "One user interface" See Col 18 line 36 38, Fig. 27, col. 35 line 26 30 of Ofek.
- "Plurality of backup storage systems including at lest first and second backup storage systems" See col. 9 line 10 – 15; Col. 10 line 6 – 12. Ofek teaches that plurality of backup media are provided; but does not explicitly place them in separate systems
- Kobayashi who teaches that a single machine is uneconomical (Col. 1 line 36 38). Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to include a plurality of backup system that including at least first and second backup storage systems as suggesting by Kobayashi, into the system as shown by Ofek, because a plurality of backup

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systems provides and economic availability of the system or information to the processing (Col. 1 line 35 – 45 of Kobayashi).

- $\diamond$  As per claim 2 4, 8 10, 20 21, 24 25, 27 29, 31 36, 38 39, 43, 52
  - With the teaching as in claim 1, it is obvious to include a third backup system as claimed in claim 2.
  - Ofek discloses a plurality of host domain and storage domain in Fig. 8, where some host domain is connected to a particular storage node (Col. 14 line 38 44 of Ofek). This domain may include host computers, primary storage node, and second storage node (may include other storage node as taught in claim 1), each storage node includes an interface as discussed before. And the data is transmitted from the storage system of client to the backup system (See Col 6 line 30 32 of Ofek).
  - Ofek also discloses a storage management component to control the configuration of the backup, tracking the location of data in the storage system (Col. 17 line 48 – 53 of Ofek). In addition, in col. 5 line 22 – 24, a location is selected depending on the desired level of security of data. Therefore, it prevents the unauthorized access or receives information related to backup activities from other backup system.
  - The system of Ofek also includes means for identifying a set of storage elements (See col. 10 line 57 – 61). Therefore, if the system that includes second or third backup storages, it must store the identifiers to identifying a corresponding backup system.

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- ♦ As per claim 5 6, 30, 48,
  - "Each one of the first and second backup storage system includes a controller"
     See Fig. 11B element 118, col. 19 line 15 20, Fig. 27 element 271g of Ofek.
  - "Each controller transmits the information relating to the backup activities only within the at least one domain" See Col. 17 line 31 – 36 of Ofek.
- ♦ As per claim 11,
  - "Determining if a user of the at least one user interface is authorized to access information" this limitation is determined when a user access to storage device (See col. 7 line 62 63 of Ofek), or depending on data level as discussed in col. 5 line 22 24. The user must have to put on ld or password to determine the access level of data.
  - By using a display and keyboard or other I/O devices, user can select data to read or write or review or backup data (See col. 8 line 58 63 of Ofek).
  - The backup storage system received the command from user interface then it will select data in appropriate tape drive that located in a specific storage location and transmit back to user by the station (Fig. 27 element 271gcol. 35 line 26 30) located within the backup system.
- $\diamond$  As per claim 12 19, 22 23, 40 42, 44 47, 49 51,

All these claims are rejected using the method as discussed above, further include:

- "A path that is not dedicated to transporting information" See Fig. 8 where host computers are connected directly or indirectly with storages or backup system by different type of network (Col. 14 line 25 – 28).

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♦ As per claim 53 – 56,

Claims 53 – 57 are rejected based on the discussion above, further include:

"Providing only status of a most recent backup" See col. 16 line 58 – 59 of Ofek.
 Where the subset of element are the data that changed during the operation.

## Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - Mikael Ronstrom (U.S. 6,438,707) discloses a fault tolerant computer system.
  - Pongracz et al (U.S. 6,003,044) discloses a method and apparatus for efficiently backing up files using multiple computer system.
  - Suzuki et al (U.S. 5,586,249) discloses a control information backup system.
  - Cagle et al (U.S. 6,311,232) discloses a method and apparatus for configuring storage devices.
  - Scott R. Dunham (U.S. 6,353,878) discloses a remote control of backup media in a secondary subsystem through access to a primary storage subsystem.
  - Gombos, Jr. et al (U.S. 5,386,545) disclose a target management method for data backup to a shared transfer station, multiple media element device.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam-Linh T. Nguyen whose telephone number is 703-305-1951. The examiner can normally be reached on Monday Friday from 8:00 am to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic, can be reached on (703) 308- 1436. The fax phone number for the organization where this application or proceeding is assigned is 703- 746- 7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703- 305- 3900.

Cam-Linh Nguyen Art Unit 2171

WAYNE AMSBURY PRIMARY PATENT EXAMINER

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